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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/769,508

DATE: 02/07/2002

TIME: 13:43:36

Input Set : A:\Bebiol111.app

Output Set: N:\CRF3\02072002\I769508.raw

**ENTERED**

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3 <110> APPLICANT: STUART, SUSAN G.
4     MONAHAN, JOHN J.
5     LANGTON, BEATRICE CLAUDIA
6     HANCOCK, MIRIAM E.C.
7     CHAO, LORRINE A.
8     BLUFORD, PETER
10 <120> TITLE OF INVENTION: C-ERBB-2 EXTERNAL DOMAIN: GP75
12 <130> FILE REFERENCE: BEBIO-111-C1
14 <140> CURRENT APPLICATION NUMBER: 09/769,508
15 <141> CURRENT FILING DATE: 2001-01-26
17 <160> NUMBER OF SEQ ID NOS: 2
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 4543
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: (150)..(3914)
30 <400> SEQUENCE: 1
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33 cccggccccc accctctgca gcaccccgcg ccccgccct cccagccggg tccagccgga 120
35 gccatggggc cggagccgca gtgagcacc atg gag ctg gcg gcc ttg tgc cgc 173
36                                     Met Glu Leu Ala Ala Leu Cys Arg
37                                     1                               5
39 tgg ggg ctc ctc ctc gcc ctc ttg ccc ccc gga gcc gcg agc acc caa 221
40 Trp Gly Leu Leu Leu Ala Leu Leu Pro Pro Gly Ala Ala Ser Thr Gln
41 10                               15                               20
43 gtg tgc acc ggc aca gac atg aag ctg cgg ctc cct gcc agt ccc gag 269
44 Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu
45 25                               30                               35                               40
47 acc cac ctg gac atg ctc cgc cac ctc tac cag ggc tgc cag gtg gtg 317
48 Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val
49 45                               50                               55
51 cag gga aac ctg gaa ctc acc tac ctg ccc acc aat gcc agc ctg tcc 365
52 Gln Gly Asn Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser
53 60                               65                               70
55 ttc ctg cag gat atc cag gag gtg cag ggc tac gtg ctc atc gct cac 413
56 Phe Leu Gln Asp Ile Gln Glu Val Gln Gly Tyr Val Leu Ile Ala His
57 75                               80                               85
59 aac caa gtg agg cag gtc cca ctg cag agg ctg cgg att gtg cga ggc 461
60 Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly
61 90                               95                               100

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63 acc cag ctc ttt gag gac aac tat gcc ctg gcc gtg cta gac aat gga 509
64 Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly
65 105 110 115 120
67 gac ccg ctg aac aat acc acc cct gtc aca ggg gcc tcc cca gga ggc 557
68 Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly Gly
69 125 130 135
71 ctg cgg gag ctg cag ctt cga agc ctc aca gag atc ttg aaa gga ggg 605
72 Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys Gly Gly
73 140 145 150
75 gtc ttg atc cag cgg aac ccc cag ctc tgc tac cag gac acg att ttg 653
76 Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp Thr Ile Leu
77 155 160 165
79 tgg aag gac atc ttc cac aag aac aac cag ctg gct ctc aca ctg ata 701
80 Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu Thr Leu Ile
81 170 175 180
83 gac acc aac cgc tct cgg gcc tgc cac ccc tgt tct ccg atg tgt aag 749
84 Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro Met Cys Lys
85 185 190 195 200
87 ggc tcc cgc tgc tgg gga gag agt tct gag gat tgt cag agc ctg acg 797
88 Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln Ser Leu Thr
89 205 210 215
91 cgc act gtc tgt gcc ggt ggc tgt gcc cgc tgc aag ggg cca ctg ccc 845
92 Arg Thr Val Cys Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro Leu Pro
93 220 225 230
95 act gac tgc tgc cat gag cag tgt gct gcc ggc tgc acg ggc ccc aag 893
96 Thr Asp Cys Cys His Glu Gln Cys Ala Ala Gly Cys Thr Gly Pro Lys
97 235 240 245
99 cac tct gac tgc ctg gcc tgc ctc cac ttc aac cac agt ggc atc tgt 941
100 His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His Ser Gly Ile Cys
101 250 255 260
103 gag ctg cac tgc cca gcc ctg gtc acc tac aac aca gac acg ttt gag 989
104 Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu
105 265 270 275 280
107 tcc atg ccc aat ccc gag ggc cgg tat aca ttc ggc gcc agc tgt gtg 1037
108 Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val
109 285 290 295
111 act gcc tgt ccc tac aac tac ctt tct acg gac gtg gga tcc tgc acc 1085
112 Thr Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr
113 300 305 310
115 ctc gtc tgc ccc ctg cac aac caa gag gtg aca gca gag gat gga aca 1133
116 Leu Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr
117 315 320 325
119 cag cgg tgt gag aag tgc agc aag ccc tgt gcc cga gtg tgc tat ggt 1181
120 Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val Cys Tyr Gly
121 330 335 340
123 ctg ggc atg gag cac ttg cga gag gtg agg gca gtt acc agt gcc aat 1229
124 Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn
125 345 350 355 360
127 atc cag gag ttt gct ggc tgc aag aag atc ttt ggg agc ctg gca ttt 1277

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128 Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala Phe
129          365          370          375
131 ctg ccg gag agc ttt gat ggg gac cca gcc tcc aac act gcc ccg ctc 1325
132 Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu
133          380          385          390
135 cag cca gag cag ctc caa gtg ttt gag act ctg gaa gag atc aca ggt 1373
136 Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu Ile Thr Gly
137          395          400          405
139 tac cta tac atc tca gca tgg ccg gac agc ctg cct gac ctc agc gtc 1421
140 Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu Ser Val
141          410          415          420
143 ttc cag aac ctg caa gta atc cgg gga cga att ctg cac aat ggc gcc 1469
144 Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn Gly Ala
145 425          430          435          440
147 tac tcg ctg acc ctg caa ggg ctg ggc atc agc tgg ctg ggg ctg cgc 1517
148 Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly Leu Arg
149          445          450          455
151 tca ctg agg gaa ctg ggc agt gga ctg gcc ctc atc cac cat aac acc 1565
152 Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His His Asn Thr
153          460          465          470
155 cac ctc tgc ttc gtg cac acg gtg ccc tgg gac cag ctc ttt cgg aac 1613
156 His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu Phe Arg Asn
157          475          480          485
159 ccg cac caa gct ctg ctc cac act gcc aac cgg cca gag gac gag tgt 1661
160 Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu Asp Glu Cys
161          490          495          500
163 gtg ggc gag ggc ctg gcc tgc cac cag ctg tgc gcc cgc agg gca ctg 1709
164 Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Arg Ala Leu
165 505          510          515          520
167 ctg ggg tca ggg ccc acc cag tgt gtc aac tgc agc cag ttc ctt cgg 1757
168 Leu Gly Ser Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg
169          525          530          535
171 ggc cag gag tgc gtg gag gaa tgc cga gta ctg cag ggg ctc ccc agg 1805
172 Gly Gln Glu Cys Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg
173          540          545          550
175 gag tat gtg aat gcc agg cac tgt ttg ccg tgc cac cct gag tgt cag 1853
176 Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu Cys Gln
177          555          560          565
179 ccc cag aat ggc tca gtg acc tgt ttt gga ccg gag gct gac cag tgt 1901
180 Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys
181          570          575          580
183 gtg gcc tgt gcc cac tat aag gac cct ccc ttc tgc gtg gcc cgc tgc 1949
184 Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys
185 585          590          595          600
187 ccc agc ggt gtg aaa cct gac ctc tcc tac atg ccc atc tgg aag ttt 1997
188 Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe
189          605          610          615
191 cca gat gag gag ggc gca tgc cag cct tgc ccc atc aac tgc acc cac 2045
192 Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His

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193		620		625		630		
195	tcc	tgt	gtg	gac	ctg	gat	gac	aag
196	Ser	Cys	Val	Asp	Leu	Asp	Asp	Lys
197			635					640
199	agc	cct	ctg	acg	tcc	atc	gtc	tct
200	Ser	Pro	Leu	Thr	Ser	Ile	Val	Ser
201		650						655
203	gtg	gtc	ttg	ggg	gtg	gtc	ttt	ggg
204	Val	Val	Leu	Gly	Val	Val	Phe	Gly
205	665							670
207	aag	atc	cgg	aag	tac	acg	atg	cgg
208	Lys	Ile	Arg	Lys	Tyr	Thr	Met	Arg
209								685
211	gtg	gag	ccg	ctg	aca	cct	agc	gga
212	Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly
213								700
215	cgg	atc	ctg	aaa	gag	acg	gag	ctg
216	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu
217								715
219	ggc	gct	ttt	ggc	aca	gtc	tac	aag
220	Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys
221		730						735
223	aat	gtg	aaa	att	cca	gtg	gcc	atc
224	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile
225	745							750
227	ccc	aaa	gcc	aac	aaa	gaa	atc	tta
228	Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu
229								765
231	gtg	ggc	tcc	cca	tat	gtc	tcc	cgc
232	Val	Gly	Ser	Pro	Tyr	Val	Ser	Arg
233								780
235	acg	gtg	cag	ctg	gtg	aca	cag	ctt
236	Thr	Val	Gln	Leu	Val	Thr	Gln	Leu
237								795
239	cat	gtc	cgg	gaa	aac	cgc	gga	cgc
240	His	Val	Arg	Glu	Asn	Arg	Gly	Arg
241		810						815
243	tgg	tgt	atg	cag	att	gcc	aag	ggg
244	Trp	Cys	Met	Gln	Ile	Ala	Lys	Gly
245	825							830
247	ctc	gta	cac	agg	gac	ttg	gcc	gct
248	Leu	Val	His	Arg	Asp	Leu	Ala	Ala
249								845
251	aac	cat	gtc	aaa	att	aca	gac	ttc
252	Asn	His	Val	Lys	Ile	Thr	Asp	Phe
253								860
255	gac	gag	aca	gag	tac	cat	gca	gat
256	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp
257								875

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Input Set : A:\Bebi0111.app

Output Set: N:\CRF3\02072002\I769508.raw

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259 atg gcg ctg gag tcc att ctc cgc cgg cgg ttc acc cac cag agt gat 2861
260 Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln Ser Asp
261      890      895      900
263 gtg tgg agt tat ggt gtg act gtg tgg gag ctg atg act ttt ggg gcc 2909
264 Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala
265 905      910      915      920
267 aaa cct tac gat ggg atc cca gcc cgg gag atc cct gac ctg ctg gaa 2957
268 Lys Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile Pro Asp Leu Leu Glu
269      925      930      935
271 aag ggg gag cgg ctg ccc cag ccc ccc atc tgt acc att gat gtc tac 3005
272 Lys Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr Ile Asp Val Tyr
273      940      945      950
275 atg atc atg gtc aaa tgt tgg atg att gac tct gaa tgt cgg cca aga 3053
276 Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg
277      955      960      965
279 ttc cgg gag ttg gtg tct gaa ttc tcc cgc atg gcc agg gac ccc cag 3101
280 Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala Arg Asp Pro Gln
281      970      975      980
283 cgc ttt gtg gtc atc cag aat gag gac ttg ggc cca gcc agt ccc ttg 3149
284 Arg Phe Val Val Ile Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu
285 985      990      995      1000
287 gac agc acc ttc tac cgc tca ctg ctg gag gac gat gac atg ggg gac 3197
288 Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp
289      1005      1010      1015
291 ctg gtg gat gct gag gag tat ctg gta ccc cag cag ggc ttc ttc tgt 3245
292 Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe Cys
293      1020      1025      1030
295 cca gac cct gcc ccg ggc gct ggg ggc atg gtc cac cac agg cac cgc 3293
296 Pro Asp Pro Ala Pro Gly Ala Gly Gly Met Val His His Arg His Arg
297      1035      1040      1045
299 agc tca tct acc agg agt ggc ggt ggg gac ctg aca cta ggg ctg gag 3341
300 Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu
301      1050      1055      1060
303 ccc tct gaa gag gag gcc ccc agg tct cca ctg gca ccc tcc gaa ggg 3389
304 Pro Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly
305 1065      1070      1075      1080
307 gct ggc tcc gat gta ttt gat ggt gac ctg gga atg ggg gca gcc aag 3437
308 Ala Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys
309      1085      1090      1095
311 ggg ctg caa agc ctc ccc aca cat gac ccc agc cct cta cag cgg tac 3485
312 Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr
313      1100      1105      1110
315 agt gag gac ccc aca gta ccc ctg ccc tct gag act gat ggc tac gtt 3533
316 Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val
317      1115      1120      1125
319 gcc ccc ctg acc tgt agc ccc cag cct gaa tat gtg aac cag cca gat 3581
320 Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro Asp
321      1130      1135      1140
323 gtt cgg ccc cag ccc cct tcg ccc cga gag ggc cct ctg cct gct gcc 3629

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